

Substitute for form 1449/PTO				Complete If Known	
				Application Number	09/851,643
				Filing Date	May 8, 2001
				First Named Inventor	Gerhard Erker
				Art Unit	1621
				Examiner Name	J. P. Nazario - Gomez
Sheet	1	of	2	Attorney Docket Number	09086-00178-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Document Number Number-Kind Code* (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,590,287	05-20-1988	Riediker et al.	
	AB*	US-4,857,854	08-15-1989	Riediker et al.	
	AC*	US-4,963,470	10-16-1990	Klingert et al.	
	AD*	US-5,026,825	06-25-1991	Riediker et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code* Number* Kind Code* (If known)			
	BA	EP-0122223-A2	10-17-1984	Ciba Geigy AG	
	BB	EP-0255486-A2	02-03-1988	Ciba Geigy AG	
	BC	EP-0256981-A2	02-24-1988	Ciba Geigy AG	
	BD	EP-0277003-A1	08-03-1988	Exxon Chemical Patents Inc	
	BE	WO-88/05793	08-11-1988	Exxon Chemical Patents Inc	
	BF	EP-0318893-A2	08-07-1989	Ciba Geigy AG	
	BG	WO-92/05208-A1	04-02-1992	Exxon Chemical Patents Inc	
	BH	JP-5039229	02-19-1993	Idemitsu Kosan Co	
	BI	EP-0553491-A1	08-04-1993	Tosoh Corp	
	BJ	WO-94/00500-A1	01-08-1994	Exxon Chemical Patents Inc	
	BK	EP-0587141-A1	03-16-1994	Tosoh Corp	
	BL	EP-0587143-A1	03-16-1994	Tosoh Corp	
	BM	JP-8087877	03-29-1994	Tosoh Corp	
	BN	JP-08239913	08-30-1994	Mitsui Petrochemical Ind	See Abstract

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those applications which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(e)(2)(iii)) because that application was filed after June 30, 2003 or is available in the PTO. \* Applicant's unique citation designation number (optional). \* See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.8). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.*	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T*
	CA	GOMEZ, R. et al., "Dialkyl- and Chloroalkyltitanium ansa-Metallocene Complexes: Synthesis and Characterization. Crystal Structure of [ $\eta^5$ - $\eta^5$ -(C <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> Si(CH <sub>3</sub> ) <sub>2</sub> ]TiCl <sub>3</sub> CH <sub>3</sub> ". Organometallics, 1991, Vol. 10, pp. 2516-2518.			
	CB	GROSSMAN, R. B. et al., "Enantioselective, Zirconium-Mediated Synthesis of Allylic Amines", J. Am. Chem. Soc., 1991, Vol. 113, pp. 2321-2322.			
	CC	COLLINS, S. et al., "Additions of Chiral Allyltitanocenes to Aldehydes: Diastereoselective Synthesis of Homoallylic Alcohols with a Recyclable Chiral Transition Metal Reagent", J. Org. Chem., 1989, Vol. 54, pp. 4154-4158.			
	CD	BUNEL, E. et al., "Carbon-Carbon Bond Activation via $\beta$ -Alkyl Elimination. Reversible			

Examiner Signature 645788	<i>Sergio Nazario Gonzales</i>	Date Considered	7/31/01
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Substitute for form 1449/PTO				<i>Complete If Known</i>	
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				First Named Inventor	Gerhard Erker
				Art Unit	1621
				Examiner Name	<i>G. P. Nazario-Gonzalez</i>
Sheet	2	of	2	Attorney Docket Number	09086-00176-US

		Branching of 1,4-Pentadienes Catalyzed by Scandocene Hydride Derivatives", J. Am. Chem. Soc., 1988, Vol. 110, pp. 976-978.	
<i>g</i>	CE	YASUDA, H. et al., "Zirconocene- $\eta$ 4,1,3-Pentadiene Complex and Its Higher Homologues. A New Synthetic Method Involving $\sigma$ - $\pi$ Rearrangement of the Hydrido-2,4-pentadienylzirconium Species", Organometallics, 1984, Vol. 3, pp. 1470-1478.	
<i>g</i>	CF	SMITH, J. A. et al., "Ansa-Metallocene Derivatives, III". Influence of an Interannular Ethylene Bridge on the Reactivity of Titanocene Derivatives", Journal of Organometallic Chemistry, 1981, Vol. 218, pp. 169-167.	
<i>g</i>	CG	COLLMAN, J. P. et al., "Survey According to Ligand," Principles and Applications of Organotransition Metal Chemistry, 1987, pp. 94-182.	
<i>g</i>	CH	CHOUKROUN, R. et al., "Zirconium(III) Chemistry: Influence of Olefins in Thermolytic Behavior of (Cp <sub>2</sub> ZrH <sub>n</sub> ) <sup>n</sup> ", Polyhedron, 1989, Vol. 8, No. 13/14, pp. 1758-1768.	
<i>g</i>	CI	WILD, F. R.W.P. et al., "ansa-Metallocene Derivatives, IV. Synthesis and Molecular Structure of Chiral ansa-Titanocene Derivatives with Bridged Tetrahydroindenyl Ligands", Journal of Organometallic Chemistry, 1982, Vol. 232, pp. 233-247.	
<i>g</i>	CJ	HORTON, A. D., "Double-Insertion Reaction of Alkynes with [Cp' <sub>2</sub> ZrMe] <sup>+</sup> : Formation of an Unusual Distorted $\eta$ 5-Pentadienyl Ligand", Organometallics, 1992, Vol. 11, pp. 8-10.	
<i>g</i>	CK	SIKORA, D. J. et al., "Reactions of Cp <sub>2</sub> M(CO) <sub>2</sub> and Cp <sub>2</sub> M(CO)(PPh <sub>3</sub> ) (M = Zr, Hf) with Acetylenes: Formation of Some Metallocyclopentadiene Complexes of Zirconocene and Hafnocene", Journal of Organometallic Chemistry, 1984, Vol. 276, pp. 21-37.	
<i>g</i>	CL	DIAMOND, G. M. et al., "Diene and Arene Compounds of Zirconium and Hafnium", J. Chem. Soc. Dalton Trans., 1992, pp. 2641-2648.	
<i>g</i>	CM	YASUDA, H. et al., "Regio- and Stereochemistry in the Sequential Insertion of Carbonyl Compounds Into Zirconium-Diene Complexes", Journal of Organometallic Chemistry, 1989, Vol. 363, pp. 61-76.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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# Fax Cover Sheet

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Application/Control Number: 09/649,549	Art Unit: 1621
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## Comments:

Ashley,

Enclosed is the initialized 1449 of the IDS filed 07/16/2007



Porfirio Nazario-Gonzalez  
 PRIMARY EXAMINER  
 GROUP 1600